

10585721a.pdf

File 5: Biosis Previews(R) 1926-2010/ Aug W4
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File 34: SciSearch(R) Cited Ref Sci 1990-2010/ Aug W4
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File 73: EMBASE 1974-2010/ Aug 30
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File 103: Energy Sci Tec 1974-2010/ Jul B2
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File 136: BioEngineering Abstracts 1966-2007/ Jan
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* File 136: This file is closed.

File 144: Pascal 1973-2010/ Aug W4
(c) 2010 INIST/CNRS

File 155: MEDLINE(R) 1950-2010/ Aug 27
(c) format only 2010 Dialog

File 156: ToxFile 1965-2010/ Aug W4
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File 162: Global Health 1983-2010/ Aug W6
(c) 2010 CAB International

File 172: EMBASE Alert 2010/ Aug 30
(c) 2010 Elsevier B.V.

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File 369: NEW SCIENTIST 1994-2010/ JAN W6
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File 370: Science 1996-1999/ Jul W8
(c) 1999 AAAS

* File 370: This file is closed (no updates). Use File 47 for more current information.

File 393: Beilstein Database - Abstracts 2008/ Q2
(c) 2008 Beilstein GmbH

File 399: CA SEARCH(R) 1967-2010/ UD=15309
(c) 2010 American Chemical Society

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IPCR/8 classification codes now searchable as ICR=. See HELP NEWS/PCR

File 434: SciSearch(R) Cited Ref Sci 1974-1989/ Dec
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10585721a.pdf

- File 28: Oceanic Abstracts 1966-2010/ Aug
(c) 2010 CSA
- File 35: Dissertation Abs Online 1861-2010/ Jul
(c) 2010 ProQuest Info&Learning
- File 44: Aquatic Science & Fisheries Abstracts 1966-2010/ Aug
(c) 2010 CSA
- File 110: Vastelinfo 1974-2002/ Jul
(c) 2002 AEA Techn Env.
- * File 110: This file is closed (no updates)
- File 135: NewsRx Weekly Reports 1995-2010/ Aug W6
(c) 2010 NewsRx
- File 164: Allied & Complementary Medicine 1984-2010/ Aug
(c) 2010 BLHCS
- File 185: Zoological Record Online(R) 1864-2010/ Sep
(c) 2010 The Thomson Corp.
- File 357: Derwent Biotech Res. _1982-2010/ Jul W2
(c) 2010 Thomson Reuters
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- File 457: The Lancet 1992-2010/ Aug W6
(c) 2010 Elsevier Limited. All rights res
- File 467: ExtraMED(tm) 2000/ Dec
(c) 2001 Informania Ltd.
- File 8: Ei Compendex(R) 1884-2010/ Aug W6
(c) 2010 Elsevier Eng. Info. Inc.
- File 99: Wilson Appl. Sci. & Tech Abs 1983-2010/ Jun
(c) 2010 The HWWilson Co.
- File 266: FEDRIP 2010/ Jun
Comp & dist by NTIS, Intl Copyright All Rights Res
- File 315: ChemEng & Biotec Abs 1970-2010/ Aug
(c) 2010 DECHEMA
- * File 315: December 2007 - the reloaded database is now online. Please consult the updated Bluesheet for details on new and changed fields.
- File 138: Physical Education Index 1990-2010/ Aug
(c) 2010 CSA
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- * File 149: Despite the gap in UD's, the file is complete and up to date.
- File 159: Cancerlit 1975-2002/ Oct
(c) format only 2002 Dialog
- File 444: New England Journal of Med. 1985-2010/ Aug W6
(c) 2010 Mass. Med. Soc.
- File 2: INSPEC 1898-2010/ Aug W6
(c) 2010 The IET
- File 32: METADEX 1966-2010/ May
(c) 2010 CSA
- File 33: Aluminium Industry Abstracts 1966-2010/ Jun
(c) 2010 CSA
- File 302: INDEX CHEM CUS 1993-201036
(c) 2010 The Thomson Corporation
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(c) 2010 Royal Soc Chemistry
- * File 317: Alert feature enhanced for multiple files, duplicate removal, customized scheduling. See HELP ALERT.
- File 354: Ei EnCompassLit(TM) 1965-2010/ Aug W6
(c) 2010 Elsevier Eng. Info. Inc.
- * File 354: Ei EnCompassLit/Ei EnCompassPat combined usage is limited to 2 hrs/yr.

Set Items Description

? e au=dubremetz, jean-francois?

Ref	Items	Index-term
E1	74	AU=DUBREMETZ, JEAN FRANCOIS
E2	131	AU=DUBREMETZ, JEAN- FRANCOIS
E3	0	* AU=DUBREMETZ, JEAN- FRANCOIS?
E4	1	AU=DUBREMETZ, JEAN- FRANCOIS
E5	51	AU=DUBREMETZ, JF
E6	2	AU=DUBREMETZ, JF*
E7	1	AU=DUBREMETZS, J. F.
E8	1	AU=DUBREMEZ J- F
E9	1	AU=DUBREMITZ J- F
E10	1	AU=DUBREMITZ, J- F
E11	1	AU=DUBREN
E12	9	AU=DUBREN R

Enter P or PAGE for more

? s e1-e10

74	AU=DUBREMETZ, JEAN FRANCOIS
131	AU=DUBREMETZ, JEAN- FRANCOIS
0	AU=DUBREMETZ, JEAN- FRANCOIS?
1	AU=DUBREMETZ, JEAN- FRANCOIS
51	AU=DUBREMETZ, JF
2	AU=DUBREMETZ, JF*
1	AU=DUBREMETZS, J. F.
1	AU=DUBREMEZ J- F
1	AU=DUBREMITZ J- F
1	AU=DUBREMITZ, J- F

S1 263 E1-E10

? s s1 and toxoplasma

263	S1
127488	TOXOPLASMA
S2 189	S1 AND TOXOPLASMA

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S3 151 RD (unique items)

? s s3 and (knockout or mutant or (inactiv?))

>>>Unmatched parentheses

? s3 and ((knockout or mutant or (inactiv?))

>>>Unmatched parentheses

? s3 and ((knockout or mutant or (inactiv?))

>>>Unmatched parentheses

? s3 and (knockout or mutant or (inactiv?))

Processing

Processed 10 of 52 files ...

Processing

Processing

Processed 20 of 52 files ...

Processing

Processing

Processed 30 of 52 files ...

Completed processing all files

45551206

3

382656 KNOCKOUT

2047722 MUTANT

1753404 INACTIV?

S4 1182539 3 AND (KNOCKOUT OR MUTANT OR (INACTIV?))

? rd

>>>A maximum of 250000 items can be processed.

? ds

Set	Items	Description
S1	263	E1-E10
S2	189	S1 AND TOXOPLASMA
S3	151	RD (unique items)
S4	1182539	3 AND (KNOCKOUT OR MUTANT OR (INACTIV?))
? s s3 and (knockout or mutant or (inactiv?))	151	S3
	382656	KNOCKOUT
	2047722	MUTANT
	1753404	INACTIV?
S5	7	S3 AND (KNOCKOUT OR MUTANT OR (INACTIV?))

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S6 7 RD (unique items)

? t s6/3, k/1-7

>>>KWC option is not available in file(s): 399

6/3, K/1 (Item 1 from file: 24)
 DIALCG(R) File 24: CSA Life Sciences Abstracts
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0003404509 IP ACCESSION NO: 8618807
 Functional domains of the Toxoplasma GRA2 protein in the formation of
 the membranous nanotubular network of the parasitophorous vacuole

Travier, Laetitia; Mondragon, Ricardo; Dubremetz, Jean-Francois;
 Musset, Karine; Mondragon, Monica; Gonzalez, Sirenia; Cesbron-Delauw,
 Marie-France; Mercier, Corinne
 Laboratoire Adaptation et Pathogenie des Micro-organismes, Universite
 Joseph Fourier GRENoble 1, Centre National de la Recherche Scientifique UMR
 5163, BP 170, Campus Sante, Domaine de la Merci, 38042 Grenoble cedex 9,
 France, [mailto:corinne.mercier@jf-grenoble.fr]

International Journal for Parasitology, v 38, n 7, p 757-773, June 2008
 PUBLICATION DATE: 2008

PUBLISHER: Elsevier Science, P.O. Box 800 Kidlington Oxford OX5 1DX UK,
 [mailto:nlinfo-f@elsevier.nl], [URL: http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0020-7519

FILE SEGMENT: Al gology, Mycology & Protozoology Abstracts (Microbiology C)

Functional domains of the Toxoplasma GRA2 protein in the formation of
 the membranous nanotubular network of the parasitophorous vacuole

Travier, Laetitia; Mondragon, Ricardo; Dubremetz, Jean-Francois;
 Musset, Karine; Mondragon, Monica; Gonzalez, Sirenia; Cesbron-Delauw,
 Marie-France; Mercier, Corinne

ABSTRACT:

10585721a.pdf

... to induce membrane tubulation. Previous studies had shown that the GRA2 dense granule protein of *Toxoplasma gondii* would be a crucial protein for the formation of the intravacuolar membranous nanotubular network...

... is alone not sufficient to induce membrane tubulation within the PV; and (iii) only one mutant, NT- α 1 α 2 α 3, restores most of the biochemical and functional properties...

... DESCRIPTIONS: Complementation; Granules; Hydrophobicity; Membrane proteins; Protein structure; Secondary structure; Secretion; Traffic; Vacuoles; Vesicles; parasitophorous vacuole; *Toxoplasma gondii*

6/3, K/2 (Item 1 from file: 399)

DI ALCOG(R) File 399: CA SEARCH(R)

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146161103 CA: 146(9)161103j JOURNAL

Mcl-3 knockout of *Toxoplasma gondii* is a successful vaccine against chronic and congenital toxoplasmosis in mice

AUTHOR(S): Ismael, Alaa Bassuny; Dimier-Poisson, Isabelle; Lebrun, Maryse; Dubremetz, Jean-Francois; Bout, Daniel; Mevellec, Marie-Noelle

LOCATION: Institut National de la Recherche Agronomique, Unite Mixte de Recherche, Universite-INRA d'Immunologie Parasitaire et Vaccinologie, Unite de Formation et de Recherche des Sciences Pharmaceutiques, Institut Federatif de Recherche, Agents Transmissibles et Infectiologie, Universite Francois-Rabelais de Tours, Tours, Fr.

JOURNAL: J. Infect. Dis. (Journal of Infectious Diseases) DATE: 2006

VOLUME: 194 NUMBER: 8 PAGES: 1176-1183 CODEN: JIDIAQ ISSN: 0022-1899

LANGUAGE: English PUBLISHER: University of Chicago Press

6/3, K/3 (Item 2 from file: 399)

DI ALCOG(R) File 399: CA SEARCH(R)

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143114041 CA: 143(7)114041r PATENT

Vaccine stocks of the Api complex family Sarcocystidae

INVENTOR(AUTHOR): Dubremetz, Jean Francois; Bout, Daniel; Lebrun, Maryse

LOCATION: Fr.

ASSIGNEE: Institut National de la Recherche Agronomique INRA; Centre National de la Recherche Scientifique CNRS; Universite Francois Rabelais

PATENT: France Demande; FR 2864966 A1 DATE: 20050715

APPLICATION: FR 2004260 (20040113)

PAGES: 33 pp. CODEN: FRXXBL LANGUAGE: French

PATENT CLASSIFICATIONS:

CLASS: C12N-001/11A; A61K-039/002B; A61K-035/68B; A61P-033/02B;

C12N-015/30B

6/3, K/4 (Item 3 from file: 399)

DI ALCOG(R) File 399: CA SEARCH(R)

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124107952 CA: 124(9)107952t JOURNAL

Complementation of a *Toxoplasma gondii* ROP1 knock-out mutant using phleomycin selection

AUTHOR(S): Soldati, Dominique; Kami Kim, Jennifer Kampreier; Dubremetz, Jean-Francois; Boothroyd, John C.

LOCATION: Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, CA, 94305-5402, USA

JOURNAL: Mol. Biochem. Parasitol. DATE: 1995 VOLUME: 74 NUMBER: 1

Page 5

6/3, K/5 (Item 1 from file: 185)
DIALOG File 185: Zoological Record Online(R)
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09005848 BIOSIS No. 14409051609
Functional domains of the Toxoplasma GRA2 protein in the formation of the membranous nanotubular network of the parasitophorous vacuole.
AUTHORS: Travier, Laetitia; Mondragon, Ricardo; Dubremetz, Jean-Francois; Musset, Karine; Mondragon, Monica; Gonzalez, Sirenia; Cesbron-Delauw, Marie-France; Mercier, Corinne (a)
AUTHORS ADDRESS: (a) Univ Grenoble 1, Ctr Natl Rech Sci, BP 170, Campus Sante, Domaine Mercier, F-38042 Grenoble; France
corinne.mercier@jff-grenoble.fr
SOURCE: International Journal for Parasitology 38(7), June 2008: 757-773.
[Print]
DOCUMENT TYPE: Article
ISSN: 0020-7519
LANGUAGES: English SUMMARY LANGUAGES: English
RECORD TYPE: Abstract

Functional domains of the Toxoplasma GRA2 protein in the formation of the membranous nanotubular network of the parasitophorous vacuole.
AUTHORS: Travier, Laetitia; Mondragon, Ricardo; Dubremetz, Jean-Francois; Musset, Karine; Mondragon, Monica; Gonzalez, Sirenia; Cesbron-Delauw, Marie-France; Mercier, Corinne...

... ABSTRACT: to induce membrane tubulation. Previous studies had shown that the GRA2 dense granule protein of Toxoplasma gondii would be a crucial protein for the formation of the intravacuolar membranous nanotubular network...

... is alone not sufficient to induce membrane tubulation within the PV; and (iii) only one mutant, NT-[alpha]1[alpha]2[alpha]3, restores most of the biochemical and functional properties...

DESCRIPTORS:
Toxoplasma gondii--Microfilaments and microtubules...
BROADER TERMS:
SYSTEMATICS:
Toxoplasma gondii--(Coccidia)

6/3, K/6 (Item 2 from file: 185)
DIALOG File 185: Zoological Record Online(R)
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04716409 BIOSIS No. 13800056470
Biogenesis of nanotubular network in Toxoplasma parasitophorous vacuole induced by parasite proteins.
AUTHORS: Mercier, Corinne; Dubremetz, Jean-Francois; Rausher, Beatrice; Lecordier, Laurence; Sibley, L. David; Cesbron-Delauw, Marie-France (a)
AUTHORS ADDRESS: (a) Centre National de la Recherche Scientifique FRE 2383, Universite Joseph Fourier, Batiment CERMO, Grenoble, 38041; France
SOURCE: Molecular Biology of the Cell 13(7), July 2002: 2397-2409. [Print]
DOCUMENT TYPE: Article
ISSN: 1059-1524
LANGUAGES: English SUMMARY LANGUAGES: English
RECORD TYPE: Abstract

Biogenesis of nanotubular network in *Toxoplasma* parasitophorous vacuole induced by parasite proteins.

AUTHORS: Mercier, Corinne; Dubremetz, Jean-Francois; Rauscher, Beatrice; Lecordier, Laurence; Sibley, L. David; Cesbron-Delauw, Marie-France...

ABSTRACT: The intracellular parasite *Toxoplasma gondii* develops within a nonfusogenic vacuole containing a network of elongated nanotubules that form connections...

... as GRA proteins) decorate this intravacuolar network after invasion. Herein, we show using specific gene knockout mutants, that the unique nanotubule conformation of the network is induced by the parasite secretory protein GRA2 and further stabilized by GRA6. The vacuolar compartment generated by GRA2 knockout parasites was dramatically disorganized, and the normally tubular network was replaced by small aggregated material...

... early conformation is essential to proper assembly of the network. Construction of a [DELTA]gra6 mutant also led to an altered mature network characterized by small vesicles instead of elongated nanotubules...

... the initial formation of the posterior organizing center was normal. Complementation of the [DELTA]gra2 knockout with mutated forms of GRA2 showed that the integrity of both amphipathic alpha-helices of...

DESCRIPTORS:

Toxoplasma gondii -- Microfilaments and microtubules...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia) -- Parasite

6/3, K/7 (Item 3 from file: 185)
 DIALOG(R) File 185: Zoological Record Online(R)
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04298233 BIOSIS No. 13200052073
 Complementation of a *Toxoplasma gondii* ROP1 knock-out mutant using phleomycin selection.

AUTHORS: Solдати, Dominique; Kim Kam; Kampmeier, Jennifer; Dubremetz, Jean-Francois; Boothroyd, John C.
 SOURCE: Molecular and Biochemical Parasitology 74(1), October 1995:87-97.

[Print]

DOCUMENT TYPE: Article

ISSN: 0166-6851

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Citation

Complementation of a *Toxoplasma gondii* ROP1 knock-out mutant using phleomycin selection.

AUTHORS: Solдати, Dominique; Kim Kam; Kampmeier, Jennifer; Dubremetz, Jean-Francois; Boothroyd, John C.

DESCRIPTORS:

Toxoplasma gondii -- Apical complex...

... knock out mutant characterization...
 ... Rhopty protein knock out mutant characterization...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)
 ? e au=bout, daniel

Ref	Items	Index-term
E1	69	*AU=BOU, DANI EL
E2	10	AU=BOU, DANI EL T.
E3	1	AU=BOU, DAVE VANDEN
E4	29	AU=BOU, DAVI D A. VANDEN
E5	1	AU=BOU, DAVI D A. VANDEN
E6	1	AU=BOU, DAVI D ANTON
E7	7	AU=BOU, DAVI D VANDEN
E8	6	AU=BOU, DI RK
E9	17	AU=BOU, DT
E10	1	AU=BOU, HENRI ET TA
E11	1	AU=BOU, HENRI K W LLEM
E12	7	AU=BOU, J.

Enter P or PAGE for more

? s e1-e2

69	AU=BOU, DANI EL
10	AU=BOU, DANI EL T.
S7	79 E1-E2

? s s7 and (toxoplasma and (Mutant or knockout))

79	S7
127488	TOXOPLASMA
2047722	MUTANT
382656	KNOCKOUT

S8 1 S7 AND (TOXOPLASMA AND (MUTANT OR KNOCKOUT))

? t s8/3,k/1

>>>KW C option is not available in file(s): 399

8/3,K/1 (Item 1 from file: 399)

DI ALCO R File 399: CA SEARCH R

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146161103 CA: 146(9)161103j JOURNAL

Mcl-3 knockout of Toxoplasma gondii is a successful vaccine against chronic and congenital toxoplasmosis in mice

AUTHOR(S): Ismael, Alaa Bassuny; Dimer-Poisson, Isabelle; Lebrun, Maryse; Dubrenet, Jean-Francois; Bout, Daniel; Mevellec, Marie-Noelle

LOCATION: Institut National de la Recherche Agronomique, Unite Mixte de Recherche, Universite-INRA d'Immunologie Parasitaire et Vaccinologie, Unite de Formation et de Recherche des Sciences Pharmaceutiques, Institut Federatif de Recherche, Agents Transmissibles et Infectiologie, Universite Francois-Rabelais de Tours, Tours, Fr.

JOURNAL: J. Infect. Dis. (Journal of Infectious Diseases) DATE: 2006

VOLUME: 194 NUMBER: 8 PAGES: 1176-1183 CODEN: JIDIAQ ISSN: 0022-1899

LANGUAGE: English PUBLISHER: University of Chicago Press

? e au=lebrun, maryse

Ref	Items	Index-term
E1	1	AU=LEBRUN, MARIO
E2	1	AU=LEBRUN, MARTIN R
E3	54	*AU=LEBRUN, MARYSE
E4	3	AU=LEBRUN, MATTHEW
E5	1	AU=LEBRUN, MATTHEW P.
E6	1	AU=LEBRUN, MAURICE
E7	2	AU=LEBRUN, MAURICE J
E8	1	AU=LEBRUN, MAURICE JOSEPH, III
E9	60	AU=LEBRUN, MAXIME
E10	22	AU=LEBRUN, MH
E11	1	AU=LEBRUN, M CHAEL J.
E12	1	AU=LEBRUN, M CHAEL M

Enter P or PAGE for more

? s e1-e12

1 AU=LEBRUN, MARI O
 1 AU=LEBRUN, MARTIN R
 54 AU=LEBRUN, MARYSE
 3 AU=LEBRUN, MATTHEW
 1 AU=LEBRUN, MATTHEW P.
 1 AU=LEBRUN, MAURICE
 2 AU=LEBRUN, MAURICE J
 1 AU=LEBRUN, MAURICE JOSEPH, III
 60 AU=LEBRUN, MAXIME
 22 AU=LEBRUN, MH
 1 AU=LEBRUN, MICHAEL J.
 1 AU=LEBRUN, MICHAEL M

S9 148 E1-E12

? s s9 and toxoplasma

148 S9
 127488 TOXOPLASMA

S10 40 S9 AND TOXOPLASMA

? s s10 and (knockout or mutant)

40 S10
 382656 KNOCKOUT
 2047722 MUTANT

S11 2 S10 AND (KNOCKOUT OR MUTANT)

? t s11/3, k/1-2

>>>KWC option is not available in file(s): 399

11/3, K/1 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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146161103 CA: 146(9)161103j JOURNAL

Mcl-3 knockout of *Toxoplasma gondii* is a successful vaccine against
 chronic and congenital toxoplasmosis in mice

AUTHOR(S): Ismael, Alaa Bassuny; Dimer-Poisson, Isabelle; Lebrun, Maryse
 ; Dubremetz, Jean-Francois; Bout, Daniel; Mevellec, Marie-Noelle

LOCATION: Institut National de la Recherche Agronomique, Unite Mixte de
 Recherche, Universite-INRA d'Immunologie Parasitaire et Vaccinologie, Unite
 de Formation et de Recherche des Sciences Pharmaceutiques, Institut
 Federatif de Recherche, Agents Transmissibles et Infectiologie, Universite
 Francois-Rabelais de Tours, Tours, Fr.

JOURNAL: J. Infect. Dis. (Journal of Infectious Diseases) DATE: 2006

VOLUME: 194 NUMBER: 8 PAGES: 1176-1183 CODEN: JIDIAQ ISSN: 0022-1899

LANGUAGE: English PUBLISHER: University of Chicago Press

11/3, K/2 (Item 1 from file: 185)

DIALOG(R) File 185: Zoological Record Online(R)

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09071437 BICIS No. 14507042701

A dynamic is required for the biogenesis of secretory organelles in
Toxoplasma gondii.

AUTHORS: Breinich, Manuela S. (a); Ferguson, David J.P.; Foth, Bernardo J.;
 van Dooren, Giel G.; Lebrun, Maryse; Quon, Doris V.; Striepen, Boris;
 Bradley, Peter J.; Frischknecht, Friedrich; Carruthers, Vern B.; Meissner,
 Markus

AUTHORS ADDRESS: (a) Univ Heidelberg, Sch Med, D-69120 Heidelberg; Germany
 markus.meissner@med.uni-heidelberg.de

SOURCE: Current Biology 19(4), February 24 2009: 277-286.

DOCUMENT TYPE: Article

ISSN: 0960-9822

LANGUAGES: English

RECORD TYPE: Abstract

A dynamin is required for the biogenesis of secretory organelles in *Toxoplasma gondii*.

...AUTHORS: a); Ferguson, David J.P.; Foth, Bernardo J.; van Dooren, Giel G.; Lebrun, Maryse; Quon, Doris V.; Strieppen, Boris; Bradley, Peter J.; Frischknecht, Friedrich; Carruthers, Vern B.; Meissner...

...ABSTRACT: absence of these organelles, invasion-related secretory proteins are mistargeted to the constitutive secretory pathway. Mutant parasites are able to replicate but are unable to escape from or invade into host...

DESCRIPTORS:

Toxoplasma gondii--Organelles...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii--(Coccidia)

? e au=soete, martine

Ref	Items	Index-term
E1	2	AU=SOETE, M DE
E2	1	AU=SOETE, MARKUS
E3	19	*AU=SOETE, MARTINE
E4	1	AU=SOETE, PAUL D
E5	2	AU=SOETE, S
E6	2	AU=SOETE, S
E7	1	AU=SOETE, SOPHIE
E8	1	AU=SOETE, T
E9	1	AU=SOETE, THOMAS
E10	33	AU=SOETE, W
E11	2	AU=SOETE, WMJ
E12	66	AU=SOETE, W

Enter P or PAGE for more

? s e1-e12

2	AU=SOETE, M DE
1	AU=SOETE, MARKUS
19	AU=SOETE, MARTINE
1	AU=SOETE, PAUL D
2	AU=SOETE, S
2	AU=SOETE, S
1	AU=SOETE, SOPHIE
1	AU=SOETE, T
1	AU=SOETE, THOMAS
33	AU=SOETE, W
2	AU=SOETE, WMJ
66	AU=SOETE, W

S12 131 E1-E12

? s s12 and toxoplasma

131	S12
127488	TOXOPLASMA
S13 19	S12 AND TOXOPLASMA

? s s13 and (knockout or mutant or (inactive?))

19	S13
382656	KNOCKOUT
2047722	MUTANT
1753404	INACTIVE?

S14 0 S13 AND (KNOCKOUT OR MUTANT OR (INACTIVE?))

? s ss13

S15 62 SS13

? s s13

S16 19 S13

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S17 16 RD (unique items)

? t s17/3, k/1-16

>>>KW C option is not available in file(s): 399

17/3, K/1 (Item 1 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0004080029 I P ACCESSI ON NO: 12494469
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
M C3 to the Micronemes

Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie;
Soete, Martine; Dubremetz, Jean-Francois; Lebrun*, Maryse
UMR 5235 CNRS, Universite de Montpellier 2, CP 107, Place Eugene Bataillon,
34090 Montpellier, France, [mailto:maryse.lebrun@univ-montp2.fr]

Eukaryotic Cell, v 7, n 6, p 1019-1028, June, 2008
PUBLICATION DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W
Washington, DC 20036 USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1535-9786

FILE SEGMENT: Al gology, Mycology & Protozoology Abstracts (Microbiology C)
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
M C3 to the Micronemes

Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie;
Soete, Martine; Dubremetz, Jean-Francois; Lebrun*, Maryse

ABSTRACT:

The protozoan parasite Toxoplasma gondii is equipped with a
sophisticated secretory apparatus, including three distinct exocytic
organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection;
Micronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

17/3, K/2 (Item 2 from file: 24)
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0003287982 I P ACCESSI ON NO: 8301663
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
M C3 to the Micronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie;
Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse
UMR 5235 CNRS, Universite de Montpellier 2, CP 107, Place Eugene Bataillon,
34090 Montpellier, France. FRE 2377 CNRS, Institut de Biologie de Lille, 1

10585721a.pdf
rue du Professeur Calmette, 59021 Lille, France. UMR Université-INRA
d'Immunologie Parasitaires, Faculté des Sciences Pharmaceutiques et
Biologiques, 31 Avenue Monge, 37200 Tours, France

Eukaryotic Cell, v 7, n 6, p 1019-1028, June 2008
PUBLICATION DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 1535-9778
ELECTRONIC ISSN: 1535-9786
FILE SEGMENT: Al g o l o g y, M y c o l o g y & P r o t o z o o l o g y A b s t r a c t s (M c r o b i o l o g y C)

Molecular Signals in the Trafficking of Toxoplasma gondii Protein
MCG to the Micronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie;
Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

ABSTRACT:

The protozoan parasite Toxoplasma gondii is equipped with a
sophisticated secretory apparatus, including three distinct exocytic
organelles, named micronemes...

DESCRIP TORS: Chitin; Epidermal growth factor; Granules; Infection;
Micronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

17/3, K/3 (Item 3 from file: 24)
DIALOG (R) File 24: CSA Life Sciences Abstracts
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0002673714 IP ACCESSION NO: 6171046
Synergistic role of micronemal proteins in Toxoplasma gondii
virulence

Cerede, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslee,
Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse
UMR Université-INRA d'Immunologie Parasitaires, Faculté des Sciences
Pharmaceutiques et Biologiques, 37200 Tours, France

Journal of Experimental Medicine, v 201, n 3, p 453-463, February 7, 2005
PUBLICATION DATE: 2005

PUBLISHER: Rockefeller University Press, 1114 First Avenue New York NY
10021-8325 USA, [mailto:Bruce.Lyons@rockefeller.edu],
[URL: <http://www.rockefeller.edu/ruptress>]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0022-1007
ELECTRONIC ISSN: 1892-1007
FILE SEGMENT: Immunology Abstracts; Al g o l o g y, M y c o l o g y & P r o t o z o o l o g y
Abstracts (M c r o b i o l o g y C)

Synergistic role of micronemal proteins in *Toxoplasma gondii* virulence

Cerède, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslée, Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse

ABSTRACT:

... other MCs. We have addressed the role of MC1 and MC3, two soluble adhesins of *Toxoplasma gondii*, in invasion and virulence. Single deletion of the MC1 gene decreased invasion in fibroblasts...

... DESCRIPTORS: deletion; Cbl protein; Micronemes; Acid phosphatase (tartrate-resistant); Amino acids; Toxoplasmosis; Infection; Secretory vesicles; Fibroblasts; *Toxoplasma gondii*

17/3, K/4 (Item 1 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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134263300 CA: 134(19)263300r JOURNAL

Identification and characterization of an escorter for two secretory adhesins in *Toxoplasma gondii*

AUTHOR(S): Reiss, Matthias; Viebig, Nicola; Brecht, Susan; Fourmaux, Marie-Noelle; Soete, Martine; Di Cristina, Manlio; Dubremetz, Jean Francois; Soldati, Dominique

LOCATION: Center for Molecular Biology, University of Heidelberg, Heidelberg, Germany, D-63120

JOURNAL: J. Cell Biol. DATE: 2001 VOLUME: 152 NUMBER: 3 PAGES: 563-578 CODEN: JCLBA3 ISSN: 0021-9525 LANGUAGE: English PUBLISHER: Rockefeller University Press

17/3, K/5 (Item 2 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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131238500 CA: 131(18)238500m JOURNAL

Genome engineering of *Toxoplasma gondii* using the site-specific recombinase Cre

AUTHOR(S): Brecht, Susan; Erdhart, Heike; Soete, Martine; Soldati, Dominique

LOCATION: Zentrum für Molekulare Biologie Heidelberg, Heidelberg, Germany, D-69120

JOURNAL: Gene DATE: 1999 VOLUME: 234 NUMBER: 2 PAGES: 239-247 CODEN: GENED6 ISSN: 0378-1119 PUBLISHER ITEM IDENTIFIER:

0378-1119(99)00202-4 LANGUAGE: English PUBLISHER: Elsevier Science B.V.

17/3, K/6 (Item 3 from file: 399)

DI ALCO (R) File 399: CA SEARCH (R)

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126027496 CA: 126(3)27496y JOURNAL

Molecular cloning of the *Toxoplasma gondii* sag4 gene encoding an 18 kDa bradyzoite specific surface protein

AUTHOR(S): Cedberg-Ferragut, Carmen; Soete, Martine; Engels, Anne; Samyn, Bart; Loyens, Anne; Van Beeumen, Jozef; Carus, Daniel; Dubremetz, Jean-Francois

LOCATION: INSERM U42, 369, rue Jules Guesde, BP. 39, 59651, Villeneuve d'Ascq, Fr.

JOURNAL: Mol. Biochem. Parasitol. DATE: 1996 VOLUME: 82 NUMBER: 2

17/3, K/7 (Item 4 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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126004251 CA: 126(1)4251a JOURNAL

Structure and biology of *Toxoplasma gondii* bradyzoites

AUTHOR(S): Fortier, Bernard; Coignard-Chatelain, Catherine; Soete, Martine; Dubremetz, Jean-Francois

LOCATION: Service Parasitologie Mycologie (Pr D. Camus), CHRU, 59037, Lille, Fr.

JOURNAL: C. R. Seances Soc. Biol. Ses Fil. DATE: 1996 VOLUME: 190

NUMBER: 4 PAGES: 385-394 CODEN: CRISAW ISSN: 0037-9026 LANGUAGE:

French PUBLISHER: Masson

17/3, K/8 (Item 5 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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121200674 CA: 121(17)200674b JOURNAL

Experimental induction of bradyzoite-specific antigen expression and cyst formation by the RH strain of *Toxoplasma gondii* in vitro

AUTHOR(S): Soete, Martine; Camus, Daniel; Dubremetz, Jean-Francois

LOCATION: INSERM Unite 42, Biologie et biochimie parasitaires et fongiques, 59 651, Villeneuve d'Ascq, Fr.

JOURNAL: Exp. Parasitol. DATE: 1994 VOLUME: 78 NUMBER: 4 PAGES: 361-70 CODEN: EXPAAA ISSN: 0014-4894 LANGUAGE: English

17/3, K/9 (Item 6 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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116004796 CA: 116(1)4796a JOURNAL

Characterization of bradyzoite-specific antigens of *Toxoplasma gondii*

AUTHOR(S): Tomavo, Stanislas; Fortier, Bernard; Soete, Martine; Ansel, Catherine; Camus, Daniel; Dubremetz, Jean-Francois

LOCATION: U42 Inst. Natl. Sante Rech. Med., 59650, Villeneuve d'Ascq, Fr.

JOURNAL: Infect. Immun. DATE: 1991 VOLUME: 59 NUMBER: 10 PAGES: 3750-3 CODEN: INFIBR ISSN: 0019-9567 LANGUAGE: English

17/3, K/10 (Item 1 from file: 185)

DIALOG(R) File 185: Zoological Record Online(R)

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09030573 BIOSIS No. 14501001837

Molecular signals in the trafficking of *Toxoplasma gondii* protein MC3 to the microneres.

AUTHORS: El Hajj, Hiba (a); Papoin, Julien; Ceredee, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

AUTHORS ADDRESS: (a) Univ Montpellier, CNRS, CP 107, Pl Eugene Bataillon, F-34090 Montpellier; France maryse.lebrun@univ-montp2.fr

SOURCE: Eukaryotic Cell 7(6), June 2008: 1019-1028. [Print]

DOCUMENT TYPE: Article

ISSN: 1535-9778

LANGUAGES: English

RECORD TYPE: Abstract

Molecular signals in the trafficking of *Toxoplasma gondii* protein M3 to the micronemes.

...AUTHORS: a); Papoin, Julien; Cerede, Odile; Garcia-Peguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

ABSTRACT: The protozoan parasite *Toxoplasma gondii* is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS:

Toxoplasma gondii--Organelles...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii--(Coccidia)--Parasite

17/3, K/11 (Item 2 from file: 185)
 DIALCOG(R) File 185: Zoological Record Online(R)
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04648653 BIOSIS No. 13800017533

Potential of [beta]-galactosidase-expressing *Toxoplasma gondii* for in situ localization and observation of rare stages of the parasite life cycle.

AUTHORS: Dao, Anne (a); Soete, Martine; Sergent, Veronique; Deslee, Didier; Fortier, Bernard; Dubremetz, Jean-Francois
 AUTHORS ADDRESS: (a) Service de Parasitologie-Mycologie, CHU Brabois-Nancy, Allée du Morvan, 54511, Vandœuvre les Nancy Cedex; France
 SOURCE: Parasitology Research 88(1), January 2002:69-72. [Print]
 DOCUMENT TYPE: Article

ISSN: 0932-0113

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Abstract

Potential of [beta]-galactosidase-expressing *Toxoplasma gondii* for in situ localization and observation of rare stages of the parasite life cycle.

...AUTHORS: a); Soete, Martine; Sergent, Veronique; Deslee, Didier; Fortier, Bernard; Dubremetz, Jean-Francois

ABSTRACT: A cyst-forming strain of *Toxoplasma gondii* was transfected with the *Escherichia coli* LacZ gene and expressed [beta]-galactosidase constitutively. This...

DESCRIPTORS:

Toxoplasma gondii--Diagnostic techniques...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)--Parasite

17/3, K/12 (Item 3 from file: 185)
 DIALCOG(R) File 185: Zoological Record Online(R)
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04440354 BIOSIS No. 13400038501

Cellular biology of *Toxoplasma gondii* bradyzoites.

ORIGINAL TITLE: Structure et biologie des bradyzoites de *Toxoplasma gondii*.

AUTHORS: Fortier, Bernard (a); Coignard-Chatain, Catherine; Soete, Martine; Dubremetz, Jean-Francois
 AUTHORS ADDRESS: (a) Service de Parasitologie et de Mycologie (Pr D. Camus), CHRU, 59037 Lille Cedex; France

SOURCE: Comptes Rendus des Seances de la Societe de Biologie et de ses
 Filiales 190(4) 1996:385-394. [Print]
 DOCUMENT TYPE: Article
 ISSN: 0037-9026
 LANGUAGES: French SUMMARY LANGUAGES: English; French
 RECORD TYPE: Citation

Cellular biology of *Toxoplasma gondii* bradyzoites.
 ORIGINAL TITLE: Structure et biologie des bradyzoites de *Toxoplasma gondii*.

...AUTHORS: a); Coignard-Chatain, Catherine; Soete, Martine;
 Dubremetz, Jean-Francois

DESCRIPTORS:

Toxoplasma gondii--Literature review..

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)

17/3, K/13 (Item 4 from file: 185)
 DIALOG(R) File 185: Zoological Record Online(R)
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04382564 BIOSIS No. 13300050499
 Molecular cloning of the *Toxoplasma gondii* sag4 gene encoding an 18
 kDa bradyzoite specific surface protein.
 AUTHORS: Oberg-Ferragut, Carmen (a); Soete, Martine; Engels, Anne;
 Samyn, Bart; Loyens, Anne; Van Beeumen, Jozef; Camus, Daniel; Dubremetz,
 Jean-Francois

AUTHORS ADDRESS: (a) INSERM U42, 369, rue Jules Guesde, BP. 39, 59651
 Villeneuve d'Ascq cedex; France

SOURCE: Molecular and Biochemical Parasitology 82(2), 25 November
 1996:237-244. [Print]

DOCUMENT TYPE: Article

ISSN: 0166-6851

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Citation

Molecular cloning of the *Toxoplasma gondii* sag4 gene encoding an 18
 kDa bradyzoite specific surface protein.

...AUTHORS: a); Soete, Martine; Engels, Anne; Samyn, Bart; Loyens,
 Anne; Van Beeumen, Jozef; Camus, Daniel; Dubremetz, Jean-Francois

DESCRIPTORS:

Toxoplasma gondii--Antigens...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)

17/3, K/14 (Item 5 from file: 185)
 DIALOG(R) File 185: Zoological Record Online(R)
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04229948 BIOSIS No. 13100052615
Toxoplasma gondii: patterns of bradyzoite-tachyzoite interconversion
 in vitro.

AUTHORS: Soete, Martine; Fortier, Bernard; Camus, Daniel; Dubremetz,
 Jean-Francois

SOURCE: NATO ASI (Advanced Science Institute) Series Series H Cell Biology
 78 1993:93-98. [Print]

DOCUMENT TYPE: Article

ISSN: 1010-8793

LANGUAGES: English

RECORD TYPE: Citation

Toxoplasma gondii: patterns of bradyzoite-tachyzoite interconversion in vitro.

AUTHORS: Soete, Martine; Fortier, Bernard; Camus, Daniel; Dubremetz, Jean Francois

DESCRIPTORS:

Toxoplasma gondii--Development...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)

17/3, K/15 (Item 6 from file: 185)

DIALOG(R) File 185: Zoological Record Online(R)

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04221447 BIOSIS No. 13100044141

Experimental induction of bradyzoite-specific antigen expression and cyst formation by the RH strain of *Toxoplasma gondii* in vitro.

AUTHORS: Soete, Martine; Camus, Daniel; Dubremetz, Jean Francois

SOURCE: Experimental Parasitology 78(4), June 1994:361-370. [Print]

DOCUMENT TYPE: Article

ISSN: 0014-4894

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Citation

Experimental induction of bradyzoite-specific antigen expression and cyst formation by the RH strain of *Toxoplasma gondii* in vitro.

AUTHORS: Soete, Martine; Camus, Daniel; Dubremetz, Jean Francois

DESCRIPTORS:

Toxoplasma gondii--Antigens...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)

17/3, K/16 (Item 7 from file: 185)

DIALOG(R) File 185: Zoological Record Online(R)

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03035138 BIOSIS No. 13700022303

Identification and characterization of an escorter for two secretory adhesins in *Toxoplasma gondii*.

AUTHORS: Reiss, Matthias; Viebig, Nicola; Brecht, Susan; Fourmaux,

Marie-Noelle; Soete, Martine; Di Cristina, Manlio; Dubremetz, Jean

Francois; Soldati, Dominique (a)

AUTHORS ADDRESS: (a) ZMBH, Im Neunheimer Feld 282, P.O. Box 106249,

Heidelberg, D-69120, Germany

SOURCE: Journal of Cell Biology 152(3), February 5 2001:563-578. [Print]

DOCUMENT TYPE: Article

ISSN: 0021-9525

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Abstract

Identification and characterization of an escorter for two secretory adhesins in *Toxoplasma gondii*.

AUTHORS: Reiss, Matthias; Viebig, Nicola; Brecht, Susan; Fourmaux,

Marie-Noelle; Soete, Martine; Di Cristina, Manlio; Dubremetz, Jean

Francois; Soldati, Dominique...

ABSTRACT: The intracellular protozoan parasite *Toxoplasma gondii* shares with other members of the Apicomplexa a common set of apical

structures involved...

DESCRIPTORS:

Toxoplasma gondii -- Organisms...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)

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Ref	Items	Index-term
E1	1	AU=CEREDE, O
E2	9	AU=CEREDE, O
E3	11	*AU=CEREDE, ODILE
E4	2	AU=CEREDE, T.
E5	1	AU=CEREDEDA, M. L.
E6	1	AU=CEREDEEV A. N.
E7	18	AU=CEREDI A
E8	14	AU=CEREDI A.
E9	4	AU=CEREDI ALFIERO
E10	1	AU=CEREDI B
E11	53	AU=CEREDI C
E12	12	AU=CEREDI C.

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? s e1-e12

1	AU=CEREDE, O
9	AU=CEREDE, O
11	AU=CEREDE, ODILE
2	AU=CEREDE, T.
1	AU=CEREDEDA, M. L.
1	AU=CEREDEEV A. N.
18	AU=CEREDI A
14	AU=CEREDI A.
4	AU=CEREDI ALFIERO
1	AU=CEREDI B
53	AU=CEREDI C
12	AU=CEREDI C.

S18 127 E1-E12

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127	S18
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S19 21 S18 AND TOXOPLASMA

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>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S20 10 RD (unique items)

? t s20/3,k/1-10

>>>KW C option is not available in file(s): 399

20/3,K/1 (Item 1 from file: 24)
 DI ALCO (R) File 24: CSA Life Sciences Abstracts
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0004080029 I P ACCESSION NO. 12494469
 Molecular Signals in the Trafficking of Toxoplasma gondii Protein
 MC3 to the Micronemes

Haji, Hiba El; Papoin, Julien; Cereede, Odile; Garcia-Reguet,
 Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse
 Page 18

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34090 Montpellier, France, [mailto:maryse.lebrun@univ-montp2.fr]

Eukaryotic Cell, v 7, n 6, p 1019-1028, June , 2008

PUBLICATION DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W
Washington, DC 20036 USA

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1535-9786

FILE SEGMENT: Al gology, Mycology & Protozoology Abstracts (Microbiology C)
Molecular Signals in the Trafficking of Toxoplasma gondii Protein
MC3 to the Micronemes

Hajj, Hiba El; Papoin, Julien; Cerede, Odile; Garcia-Peguet,
Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun*, Maryse

ABSTRACT:

The protozoan parasite Toxoplasma gondii is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection;
Micronemes; Organelles; Parasites; Virulence; Toxoplasma gondii

20/3_K/2 (Item 2 from file: 24)

DIALOG(R) File 24: CSA Life Sciences Abstracts

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0003287982 IP ACCESSION NO: 8301663

Molecular Signals in the Trafficking of Toxoplasma gondii Protein
MC3 to the Micronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Peguet,
Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse
UMR 5235 CNRS, Université de Montpellier 2, CP 107, Place Eugene Bataillon,
34090 Montpellier, France. FRE 2377 CNRS, Institut de Biologie de Lille, 1
rue du Professeur Calmette, 59021 Lille, France. UMR Université-INRA
d'Immunologie Parasitaires, Faculté des Sciences Pharmaceutiques et
Biologiques, 31 Avenue Monge, 37200 Tours, France

Eukaryotic Cell, v 7, n 6, p 1019-1028, June 2008

PUBLICATION DATE: 2008

PUBLISHER: American Society for Microbiology, 1752 N Street N.W
Washington, DC 20036 USA, [URL: <http://www.asm.org/>]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1535-9778

ELECTRONIC ISSN: 1535-9786

FILE SEGMENT: Al gology, Mycology & Protozoology Abstracts (Microbiology C)

Molecular Signals in the Trafficking of Toxoplasma gondii Protein
MC3 to the Micronemes

El Hajj, Hiba; Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

ABSTRACT:

The protozoan parasite *Toxoplasma gondii* is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS: Chitin; Epidermal growth factor; Granules; Infection; Micronemes; Organelles; Parasites; Virulence; *Toxoplasma gondii*

20/3, K/3 (Item 3 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0002673714 IP ACCESSION NO: 6171046
Synergistic role of micronemal proteins in *Toxoplasma gondii* virulence

Cerede, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslee, Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse
UMR Université-INRA d'Immunologie Parasitaires, Faculté des Sciences Pharmaceutiques et Biologiques, 37200 Tours, France

Journal of Experimental Medicine, v 201, n 3, p 453-463, February 7, 2005
PUBLICATION DATE: 2005

PUBLISHER: Rockefeller University Press, 1114 First Avenue New York NY 10021-8325 USA, [mailto:Bruce.Lyons@rockefeller.edu],
[URL: <http://www.rockefeller.edu/rupress>]

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0022-1007
ELECTRONIC ISSN: 1892-1007
FILE SEGMENT: Immunology Abstracts; Algalogy, Mycology & Protozoology Abstracts (Microbiology C)

Synergistic role of micronemal proteins in *Toxoplasma gondii* virulence

Cerede, Odile; Dubremetz, Jean Francois; Soete, Martine; Deslee, Didier; Vial, Henri; Bout, Daniel; Lebrun, Maryse

ABSTRACT:

... other MICs. We have addressed the role of MIC1 and MIC3, two soluble adhesins of *Toxoplasma gondii*, in invasion and virulence. Single deletion of the MIC1 gene decreased invasion in fibroblasts...

... DESCRIPTORS: deletion; Cbl protein; Micronemes; Acid phosphatase (tartrate-resistant); Amino acids; Toxoplasmosis; Infection; Secretory vesicles; Fibroblasts; *Toxoplasma gondii*

20/3, K/4 (Item 4 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0002323997 I.P. ACCESSION NO. 5380919

The *Toxoplasma gondii* protein MC3 requires pro-peptide cleavage and dimerization to function as adhesin

Cerède, O.; Dubremetz, J.F.; Bout, D.; Lebrun, M.
UMR Université-INRA d'Immunologie Parasitaire, Faculté des Sciences
Pharmaceutiques et Biologiques, 31 Avenue Monge, F-37200 Tours, France,
[mailto:lebrun@univ-tours.fr]

EMBO Journal, v 21, n 11, p 2526-2536, June 3, 2002
PUBLICATION DATE: 2002

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0261-4189

FILE SEGMENT: Nucleic Acids Abstracts; Algalogy, Mycology & Protozoology
Abstracts (Microbiology C)

The *Toxoplasma gondii* protein MC3 requires pro-peptide cleavage and dimerization to function as adhesin

Cerède, O.; Dubremetz, J.F.; Bout, D.; Lebrun, M

ABSTRACT:

... proteins and undergo proteolytic processing of unknown biological significance during their transport to micronemes. In *Toxoplasma gondii*, the micronemal homodimeric protein MC3 is a potent adhesin that displays features shared by...

DESCRIPTORS: Mammalian cells; Adhesins; Dimerization; Transformation; micronemal proteins; MC3 protein; MC8 protein; *Toxoplasma gondii*

20/3, K/5 (Item 1 from file: 50)

DIALOG(R) File 50: CAB Abstracts

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0009833498 CAB Accession Number: 20093144448

Further analysis of protection induced by the MC3 DNA vaccine against *T. gondii*: CD4 and CD8 T cells are the major effectors of the MC3 DNA vaccine-induced protection, both Lectin-like and EGF-like domains of MC3 conferred protection.

Ismael, A. B.; Hedhli, D.; Cerède, O.; Lebrun, M.; Dimer-Poisson, I.; Mevellec, M. N.

Author email address: mevellec@univ-tours.fr

Université François Rabelais, INRA, UMR 0483 Université-INRA
d'Immunologie Parasitaire, Vaccinologie et Biothérapies anti-infectieuses,
IFR 136 Agents transmissibles et Infectiologie, UFR des Sciences
Pharmaceutiques, 31 avenue Monge, 37200 Tours, France.

Vaccine vol. 27 (22): p.2959-2966

Publication Year: 2009

ISSN: 0264-410X

Digital Object Identifier: 10.1016/j.vaccine.2009.02.107

Publisher: Elsevier Amsterdam Netherlands

Language: English

Record Type: Abstract

Document Type: Journal article

... ORGANISM DESCRIPTORS: *Toxoplasma gondii*

...BROADER TERMS: Toxoplasma;
 Ismael, A. B.; Hedhli, D.; Ceredé, O.; Lebrun, M.; Dimer-Poisson,
 I.; Mevellec, M. N.

20/3, K/6 (Item 1 from file: 65)
 DIALOG(R) File 65: Inside Conferences
 (c) 2010 BLDSC all rts. reserv. All rts. reserv.

03871878 INSDI CONFERENCE ITEM ID: ON040701151
 Identification and molecular characterization of a toxoplasma gondii
 microneme

Ceredé, O.; Garcia-Reguet, N.; Conseil, V.; Bout, D.; Dubremetz,
 J.-F.; Lebrun, M.

CONFERENCE: Recherches actuelles sur les Apicomplexa-Reuni on
 ANNALES PHARMACEUTIQUES FRANCAISES, 2001; VOL 59; NO 5 P: 293-296
 Masson, 2001

ISSN: 0003-4509

LANGUAGE: French DOCUMENT TYPE: Conference Papers

CONFERENCE SPONSOR: Académie nationale de Pharmacie

CONFERENCE LOCATION: Paris (venue unconfirmed) 2001; Feb (200102)

NOTE:

Text in French, summaries in English

Identification and molecular characterization of a toxoplasma gondii
 microneme

Ceredé, O.; Garcia-Reguet, N.; Conseil, V.; Bout, D.; Dubremetz,
 J.-F.; Lebrun, M.

20/3, K/7 (Item 1 from file: 393)
 DIALOG(R) File 393: Beilstein Database - Abstracts
 (c) 2008 Beilstein GmbH All rts. reserv.

Beilstein Abstract Id: 6538008

Title: Identification and molecular characterization of a
 Toxoplasma gondii microneme

Document Type: Journal Record Type: Abstract

Author: Pradines, O.; Ceredé, T.; Garcia-Reguet, N.; Conseil, V.;
 Bout, D.; Dubremetz, J.-F.; Lebrun, M.

Citation: Ann. Pharm. Fr. (2001) Series: 59-5, 293 - 296 CODEN: APFFRD

Language: French

Abstract Language: English

Title: Identification and molecular characterization of a
 Toxoplasma gondii microneme

Author: Pradines, O.; Ceredé, T.; Garcia-Reguet, N.; Conseil, V.;
 Bout, D.; Dubremetz, J.-F.; Lebrun, M.

...Abstract: are involved in the invasion process. We have recently
 characterized a protein in micronemes of Toxoplasma
 gondii, TgM C3, which possess adhesive properties to host cell
 surface. Immunofluorescence analysis of T. gondii...

Keywords: apicomplexa; Toxoplasma gondii; microneme; TgM C3;
 adhesin; propeptide

20/3, K/8 (Item 1 from file: 399)
 DIALOG(R) File 399: CA SEARCH(R)
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136002600 CA: 136(1)2600w JOURNAL

Identification and molecular characterization of an adhesin (TgM C3) of
 Toxoplasma gondii microneme

10585721a.pdf

AUTHOR(S): Pradines, O.; Cerede, T.; Garcia-Regue, N.; Conseil, V.; Bout, D.; Dubremetz, J. F.; Lebrun, M.
LOCATING: Fac. de Pharmacie de Tours, UMR Univ. INRA d'Immunologie Parasitaire, F37200, Tours, Fr.
JOURNAL: Ann. Pharm. Fr. DATE: 2001 VOLUME: 59 NUMBER: 5 PAGES: 293-296 CODEN: APFRAD ISSN: 0003-4509 LANGUAGE: French PUBLISHER: Masson Editeur

20/3, K/9 (Item 1 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
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09030573 BIOSIS No. 14501001837
Molecular signals in the trafficking of *Toxoplasma gondii* protein MC3 to the micronemes.
AUTHORS: El Hajj, Hiba (a); Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse
AUTHORS ADDRESS: (a) Univ Montpellier, CNRS, CP 107, Pl Eugene Bataillon, F-34090 Montpellier; France maryse.lebrun@univ-montp2.fr
SOURCE: Eukaryotic Cell 7(6), June 2008: 1019-1028. [Print]
DOCUMENT TYPE: Article
ISSN: 1535-9778
LANGUAGES: English
RECORD TYPE: Abstract

Molecular signals in the trafficking of *Toxoplasma gondii* protein MC3 to the micronemes.

...AUTHORS: a); Papoin, Julien; Cerede, Odile; Garcia-Reguet, Nathalie; Soete, Martine; Dubremetz, Jean-Francois; Lebrun, Maryse

ABSTRACT: The protozoan parasite *Toxoplasma gondii* is equipped with a sophisticated secretory apparatus, including three distinct exocytic organelles, named micronemes...

DESCRIPTORS:
Toxoplasma gondii--Organelles...
BROADER TERMS:
SYSTEMATICS:
Toxoplasma gondii--(Coccidia)--Parasite

20/3, K/10 (Item 2 from file: 185)
DIALOG(R) File 185: Zoological Record Online(R)
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04699985 BIOSIS No. 13800047116
The *Toxoplasma gondii* protein MC3 requires pro-peptide cleavage and dimerization to function as adhesin.
AUTHORS: Cerede, Odile; Dubremetz, Jean-Francois; Bout, Daniel; Lebrun, Maryse (a)
AUTHORS ADDRESS: (a) Faculte des Sciences Pharmaceutiques et Biologiques, UMR Universite-INRA d'Immunologie Parasitaire, 31 Avenue Monge, F-37200, Tours; France
SOURCE: EMBO Journal 21(11), June 3 2002: 2526-2536. [Print]
DOCUMENT TYPE: Article
ISSN: 0261-4189
LANGUAGES: English SUMMARY LANGUAGES: English
RECORD TYPE: Abstract

The *Toxoplasma gondii* protein MC3 requires pro-peptide cleavage and dimerization to function as adhesin.

AUTHORS: Cerède, Odile; Dubremetz, Jean François; Bout, Daniel; Lebrun, Maryse...

...ABSTRACT: proteins and undergo proteolytic processing of unknown biological significance during their transport to micronemes. In *Toxoplasma gondii*, the micronemal homodimeric protein MC3 is a potent adhesin that displays features shared by...

DESCRIPTORS:

Toxoplasma gondii--Proteins...

BROADER TERMS:

SYSTEMATICS:

Toxoplasma gondii (Coccidia)--Parasite

? s *toxoplasma* and (knockout or mutant or (inactive?))

127488 TOXOPLASMA

382656 KNOCKOUT

2047722 MUTANT

1753404 INACTIVE?

S21 4606 TOXOPLASMA AND (KNOCKOUT OR MUTANT OR (INACTIVE?))

? s s21 and *gondii*

4606 S21

107244 GONDI

S22 4335 S21 AND GONDI

? s s22 and adhesion

4335 S22

40666 ADHESIN

S23 68 S22 AND ADHESIN

? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S24 17 RD (unique items)

? t s24/3,k/1-17

>>>KWIC option is not available in file(s): 399

24/3,K/1 (Item 1 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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0021654687 BIOSIS NO.: 201000333710

Rhomboid 4 (ROM4) Affects the Processing of Surface Adhesins and

Facilitates Host Cell Invasion by *Toxoplasma gondii*

AUTHOR: Bugulicki Jeffrey S (Reprint); Brossier Fabien; Shuman Joel;

Sibley L David

AUTHOR ADDRESS: Washington Univ, Sch Med, Dept Mol Microbiol, St Louis, MO

63110 USA**USA

AUTHOR E-MAIL ADDRESS: sibley@orcim.wustl.edu

JOURNAL: PLoS Pathogens 6 (4): pArticle No.: e1000858 APR 2010 2010

ITEM IDENTIFIER: doi:10.1371/journal.ppat.1000858

ISSN: 1553-7366 (print) 1553-7374 (electronic)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Rhomboid 4 (ROM4) Affects the Processing of Surface Adhesins and

Facilitates Host Cell Invasion by *Toxoplasma gondii*

ABSTRACT: Host cell attachment by *Toxoplasma gondii* is dependent on polarized secretion of apical adhesins released from the micronemes. Subsequent translocation of...

...this step; however, their precise roles in vivo have not been elucidated. Using a conditional knockout strategy, we demonstrate that TgROM4 participates in processing of surface adhesins including M C2, AMA1, and M C3. Suppression of TgROM4 led to decreased release of the adhesin M C2 into the supernatant and concomitantly increased the surface expression of this and a subset...

...adhesins that is important for efficient cell motility and invasion of host cells by T. gondii.

DESCRIPTORS:

...ORGANISMS: Toxoplasma gondii (Sporozoa)
CHEMICALS & BIOCHEMICALS: ...adhesin; ...

...adhesin; ...

...adhesin

24/3, K/2 (Item 2 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
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0020985171 BIOSIS NO.: 200900326608

Aldolase Is Essential for Energy Production and Bridging Adhesin

-Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells

AUTHOR: Starnes G Lucas; Coincon Mathieu; Sygusch Jurgen; Sibley L David
(Reprint)

AUTHOR ADDRESS: Washington Univ, Sch Med, Dept Mol Microbiol, 660 S Euclid Ave, St Louis, MO 63130 USA**USA

AUTHOR E-MAIL ADDRESS: sibley@orcim.wustl.edu

JOURNAL: Cell Host & Microbe 5 (4): p353-364 APR 23 2009 2009

ITEM IDENTIFIER: doi:10.1016/j.chom.2009.03.005

ISSN: 1931-3128

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Aldolase Is Essential for Energy Production and Bridging Adhesin

-Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells

...ABSTRACT: implicated aldolase, a tetrameric glycolytic enzyme, in coupling actin filaments to the parasite's surface adhesin microneme protein 2 (M C2). Here, we test the essentiality of this interaction in host cell...

...Based on in vitro studies and homology modeling, we generated a series of mutations in Toxoplasma gondii aldolase (TgALD1) that delineated M C2 tail domain (M C2t) binding function from its enzyme activity. We tested these mutants by complementing a conditional knockout of TgALD1. Mutations that affected glycolysis also reduced motility. Mutants only affecting binding to M C2t...

...but is also essential for efficient host cell invasion, based on its ability to bridge adhesin-cytoskeleton interactions in the parasite.

DESCRIPTORS:

...ORGANISMS: Toxoplasma gondii (Sporozoa)

CHEMICALS & BIOCHEMICALS: ...adhesin

GENE NAME: Toxoplasma gondii TgALD1 gene (Sporozoa...)

MOLECULAR TERMS: ...adhesin-cytoskeleton interaction

CONCEPT CODES:

24/3, K/3 (Item 3 from file: 5)
 DI ALCOG R) File 5: Biosis Previews(R)
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19220962 BIOSIS NO.: 200600566357
 Toxoplasma M C2 is a major determinant of invasion and virulence
 AUTHOR: Huynh My-Hang; Carruthers Vern B (Reprint)
 AUTHOR ADDRESS: Johns Hopkins Univ, Sch Publ Hlth, WHarry Feinstone Dept
 Mbl Microbiol and Immunol, Baltimore, MD 21218 USA**USA
 AUTHOR E-MAIL ADDRESS: vcarruth@mh.edu
 JOURNAL: PLoS Pathogens 2 (8): p753-762 AUG 2006 2006
 ISSN: 1553-7366_(print) 1553-7374_(electronic)
 DOCUMENT TYPE: Article
 RECORD TYPE: Abstract
 LANGUAGE: English

Toxoplasma M C2 is a major determinant of invasion and virulence

ABSTRACT: Like its apicomplexan kin, the obligate intracellular protozoan
 Toxoplasma gondii actively invades mammalian cells and uses a
 unique form of gliding motility. The recent identification...

...parasite has multiple options for host-cell recognition and invasion. To
 test whether the transmembrane adhesin M C2, together with its
 partner protein M2AP, participates in a major invasion pathway, we
 utilized a conditional expression system to introduce an
 anhydrotetracycline-responsive mc2 construct, allowing us to then
 knockdown the endogenous mc2 gene. Conditional suppression of M C2
 provided the first opportunity to directly determine...

...immunity. Our findings demonstrate that the M C2 protein complex is a
 major virulence determinant for Toxoplasma infection and that
 M C2-deficient parasites constitute an effective live-attenuated vaccine
 for experimental toxoplasmosis.

DESCRIPTORS:
 ...ORGANISMS: Toxoplasma gondii (Sporozoa)
 CHEMICALS & BIOCHEMICALS: ...transmembrane adhesin M C2...
 GENE NAME: Toxoplasma gondii mc2 gene (Sporozoa) {
 Toxoplasma protein gene}

24/3, K/4 (Item 4 from file: 5)
 DI ALCOG R) File 5: Biosis Previews(R)
 (c) 2010 The Thomson Corporation. All rts. reserv.

18978776 BIOSIS NO.: 200600324171
 Preparing for an invasion: charting the pathway of adhesion proteins to
 Toxoplasma micronemes
 AUTHOR: Huynh My-Hang; Harper Jill M; Carruthers Vern B (Reprint)
 AUTHOR ADDRESS: Johns Hopkins Univ, Bloomberg Sch Publ Hlth, WHarry
 Feinstone Dept Mbl Microbiol and Immunol, Baltimore, MD 21205 USA**USA
 AUTHOR E-MAIL ADDRESS: vcarruth@hsph.edu
 JOURNAL: Parasitology Research 98 (5): p389-395 APR 2006 2006
 ISSN: 0932-0113
 DOCUMENT TYPE: Article; Literature Review
 RECORD TYPE: Abstract
 LANGUAGE: English

Preparing for an invasion: charting the pathway of adhesion proteins to
 Toxoplasma micronemes

ABSTRACT: *Toxoplasma gondii* is an apicomplexan parasite capable of infecting a broad host range including humans. The tachyzoite...

...adhesive proteins from apical secretory organelles called micronemes. A protein complex consisting of the transmembrane adhesin MC2 and a tightly associated partner, M2AP, is abundantly released from the micronemes. Similar to many proteins in a regulated secretory pathway, *T. gondii* proteins destined for micronemes and rhoptries (another secretory organelle associated with invasion) undergo proteolytic maturation...

...propeptide that is removed in a post-Golgi compartment. By expressing an M2AP propeptide deletion mutant in the M2AP knockout background, we show that the propeptide is required for the MC2-M2AP complex to exit from the early endosome. Although a cleavage-resistant M2AP mutant was able to efficiently reach the micronemes, it was unable to rapidly mobilize from the...

...invasion and were partially attenuated in virulence to a degree that is indistinguishable from M2AP knockout parasites. Conditional expression of MC2 showed that it is also required for correct M2AP sorting...

...basis for future studies aimed at defining the branch points of protein sorting in *T. gondii* and at a deeper understanding of the precise roles of M2AP propeptide and MC2 targeting...

DESCRIPTIONS:

...ORGANISMS: *Toxoplasma gondii* (Sporozoa)
CHEMICALS & BIOCHEMICALS:

24/3, K/5 (Item 5 from file: 5)
DIALOG(R) File 5: Biosis Previews(R)
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18241010 BIOSIS NO.: 200500148075

Calcium-mediated protein secretion potentiates motility in *Toxoplasma gondii*

AUTHOR: Wetzel Dawn M, Chen Lea Ann, Ruiz Felix A, Moreno Silvia NJ;

Sibley L David (Reprint)

AUTHOR ADDRESS: Sch MedDept Mbl Microbiol, Washington Univ, St Louis, MO, 63110, USA**USA

AUTHOR E-MAIL ADDRESS: sibley@orcin.wustl.edu

JOURNAL: Journal of Cell Science 117 (24): p5739-5748 November 15, 2004

MEDIUM: print

ISSN: 0021-9533 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

Calcium-mediated protein secretion potentiates motility in *Toxoplasma gondii*

ABSTRACT: Apicomplexans such as *Toxoplasma gondii* actively invade host cells using a unique parasite-dependent mechanism termed gliding motility. Calcium-mediated...

...stimulate intracellular calcium fluxes and found that this drug led to enhanced motility by *T. gondii*. Treatment with calmidazolium increased the duration of gliding and resulted in trails that were twice

as long as those formed by control parasites. Calmidazolium also increased microneme secretion by *T. gondii*, and studies with a deletion mutant of the accessory protein m2AP specifically implicated that adhesin MC2 was important for gliding. The effects of calmidazolium on gliding and secretion were due...

...oscillations in intracellular calcium levels may regulate microneme secretion and control gliding motility in *T. gondii*.

DESCRIPTORS:

ORGANISMS: *Toxoplasma gondii* (Sporozoa...

CHEMICALS & BIOCHEMICALS: ...adhesin protein

24/3, K/6 (Item 6 from file: 5)

DIALOG(R) File 5: Biosis Previews(R)

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17886042 BIOSIS NO.: 200400256799

A role for coccidian cGMP-dependent protein kinase in motility and invasion.

AUTHOR: Wiersma Helen I; Galuska Stefan E; Tomley Fiona M; Sibley L David; Liberator Paul A; Donald Robert G K (Reprint)

AUTHOR ADDRESS: Merck Research Laboratories, R80Y-260, P.O. Box 2000, Rahway, NJ, 07065-0900, USA**USA

AUTHOR E-MAIL ADDRESS: robert.donald@merck.com

JOURNAL: International Journal for Parasitology 34 (3): p369-380 9 March 2004 2004

MEDIUM: print

ISSN: 0020-7519 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: pyrrol-3-yl) pyridine (compound 1), which effectively controls the proliferation of *Eimeria tenella* and *Toxoplasma gondii* parasites in animal models. The efficacy of compound 1 in parasite-specific metabolic assays of...

...timing of compound addition. Simultaneous addition of compound with extracellular *E. tenella* sporozoites or *T. gondii* tachyzoites inhibited (3H)-uracil uptake in a dose-dependent manner, while minimal efficacy was observed...

...cell invasion. Immunofluorescence assays confirmed that compound 1 blocks the attachment of *Eimeria* sporozoites or *Toxoplasma* tachyzoites to host cells and inhibits parasite invasion and gliding motility. Compound 1 also inhibits the secretion of micronemal adhesins (*E. tenella* MC1, MC2 and *T. gondii* MC2), an activity closely linked to invasion and motility in apicomplexan parasites. The inhibition of *T. gondii* MC2 adhesin secretion by compound 1 was not reversed by treatment with calcium ionophores or by ethanol...

...calcium-dependent events commonly associated with the discharge of the microneme organelle in tachyzoites. Transgenic *Toxoplasma* strains expressing cGMP-dependent protein kinase mutant alleles that are refractory to compound 1 (including cGMP-dependent protein kinase knock-out lines...

...potential role of cGMP-dependent protein kinase in invasion and motility. In these strains, parasite adhesin secretion, gliding motility, host cell attachment and invasion displayed a reduced sensitivity to compound 1...

DESCRIPTORS:

... ORGANISMS: *Toxoplasma gondii* (Sporozoa)
CHEMICALS & BIOCHEMICALS:

24/3, K/7 (Item 1 from file: 34)
DI ALCOR File 34: Sci Search(R) Cited Ref Sci
(c) 2010 The Thomson Corp. All rights reserved.

15570299 Genuine Article#: 084QC No. References: 27
Title: Mcl-3 knockout of *Toxoplasma gondii* is a
successful vaccine against chronic and congenital toxoplasmosis in mice
Author: Israel AB; Diemer-Poisson I; Lebrun M; Dubremetz JF; Bout D;
Mevel ec MN (REPRI NT)
Author Email Address: mevel ec@univ-tours.fr
Corporate Source: Univ Tours, INRA, Fac Pharm, UMR Univ, Unite Format & Rech
Sci Pharmaceut, Inst, 31 Ave Monge/F-37200 Tours//France/ (REPRI NT); Univ
Tours, INRA, Fac Pharm, UMR Univ, Unite Format & Rech Sci
Pharmaceut, Inst, F-37200 Tours//France/; Univ Montpellier 2, CNRS, UMR
5539, Montpellier//France/
Journal: JOURNAL OF INFECTIOUS DISEASES, 2006, V194, N8 (OCT 15), P
1176-1183
ISSN: 0022-1899 Publication Date: 20061015
Publisher: UNIVERSITY OF CHICAGO PRESS, 1427 E 60TH ST, CHICAGO, IL 60637-2954 USA
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Mcl-3 knockout of *Toxoplasma gondii* is a
successful vaccine against chronic and congenital toxoplasmosis in mice
... Abstract: vaccine, Mcl-3KO, against both chronic and congenital
toxoplasmosis in mice. Mcl-3KO is a mutant strain of
Toxoplasma gondii RH that lacks the mcl and mc3 genes.

Methods. CF1 mice were vaccinated with Mcl-3KO tachyzoites and
challenged orally with *T. gondii* (strain 76K). Immune responses
and protection against chronic infection (cyst load in brain tissue)
and ...
... Identifiers: MCRONEME PROTEIN; PREGNANT MICE; RESISTANCE; API COMPLEXAN;
TRANSMISSION; INFECTION; VIRULENCE; PARASITE; INVASION; ADHESION

24/3, K/8 (Item 1 from file: 72)
DI ALCOR File 72: EMBASE
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0081447706 EMBASE/Medline No: 2006510789
Two separate, conserved acidic amino acid domains within the
Toxoplasma gondii MC2 cytoplasmic tail are required for
parasite survival
Starnes G.L.; Jewett T.J.; Carruthers V.B.; Sibley L.D.
Department of Molecular Microbiology, Washington University, School of
Medicine, St. Louis, MO 63130-1093, United States
AUTHOR EMAIL: sibley@orci.mwustl.edu
CORRESP. AUTHOR/AFFILI: Sibley L.D.: Dept. of Molecular Microbiology,
Washington University, School Medicine, 660 S Euclid Ave., St. Louis, MO
63130-1093, United States
CORRESP. AUTHOR EMAIL: sibley@orci.mwustl.edu

Journal of Biological Chemistry (J. Biol. Chem.) (United States)
October 13, 2006, 281/41 (30745-30754)
CODEN: JBCA ISSN: 0021-9258 eISSN: 1083-351X
DOI: 10.1074/jbc.M606523200
URL: <http://www.jbc.org/cgi/reprint/281/41/30745>
DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 37

Two separate, conserved acidic amino acid domains within the Toxoplasma gondii MC2 cytoplasmic tail are required for parasite survival

...parasite before they are shed by the activity of a rhomboid protease. TRAP orthologs, including Toxoplasma gondii MC2 (miconeme protein 2), possess a short cytoplasmic tail, which is essential for motility. Previous...

DRUG DESCRIPTIONS:

adhesin; alanine; amino acid; fructose bisphosphate aldolase; mutant protein; unclassified drug

MEDICAL DESCRIPTIONS:

...nonhuman; nucleotide sequence; parasite survival; point mutation; priority journal; protein analysis; protein domain; protein interaction; Toxoplasma gondii

24/3, K/9 (Item 1 from file: 399)

DIALOG(R) File 399: CA SEARCH(R)

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143114041 CA: 143(7)114041r PATENT

Vaccine stocks of the Apicomplexan family Sarcocystidae

INVENTOR(AUTHOR): Dubremetz, Jean Francois; Bout, Daniel; Lebrun, Maryse

LOCATION: Fr.

ASSIGNEE: Institut National de la Recherche Agronomique INRA; Centre National de la Recherche Scientifique CNRS; Universite Francois Rabelais

PATENT: France Demande; FR 2864966 A1 DATE: 20050715

APPLICATION: FR 2004260 (20040113)

PAGES: 33 pp. CODEN: FRXXBL LANGUAGE: French

PATENT CLASSIFICATIONS:

CLASS: C12N-001/11A; A61K-039/002B; A61K-035/68B; A61P-033/02B;

C12N-015/30B

24/3, K/10 (Item 1 from file: 35)

DIALOG(R) File 35: Dissertation Abs Online

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02081978 ORDER NO: AADAA-13172605

Miconeme protein function in Toxoplasma gondii

Author: Harper, Jill Marie

Degree: Ph.D.

Year: 2005

Corporate Source/Institution: The Johns Hopkins University (0098)

Source: VOLUME 66/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1878. 178 PAGES

ISBN: 0-542-10152-1

Miconeme protein function in Toxoplasma gondii

Toxoplasma gondii is an obligate intracellular parasite of medical importance to both humans and animals. Host...

...of M2AP is sufficient for complex formation in both mammalian cells and in *Toxoplasma gondii*.

Full-length MC2 is a demonstrated adhesin, although the contributions of the individual adhesive domains had not been previously assessed. Using recombinant...

...propeptide and its processing influences complex trafficking. We generated parasites expressing M2AP Δ pro, a mutant that lacks the propeptide, and parasites expressing M2AP Δ P4-P4^{prime}(A), a mutant that is refractory to propeptide processing. We found that the absence of the propeptide results in secretory retention and, in the absence of proteolytic processing, complex assembly is impaired. Both mutant proteins cause impaired invasion and attenuated *in vivo* infections, emphasizing the importance of...

...propeptide. Because attachment and invasion are essential steps in the life cycle of *T. gondii*, we believe that proteins involved in these processes are promising drug targets.

24/3, K/11 (Item 1 from file: 135)
 DIALCOG(R) File 135: NewsRx Weekly Reports
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0001940283 (USE FORMAT 7 OR 9 FOR FULLTEXT)
 Findings from Washington University, Medical Department provide new insights into pathogens
 Science Letter, July 13, 2010, p. 1427

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English
 RECORD TYPE: FULLTEXT
 WORD COUNT: 361

TEXT: JUL 13 - (NewsRx.com) -- "Host cell attachment by *Toxoplasma gondii* is dependent on polarized secretion of apical adhesins released from the micronemes (see also Pathogens). Subsequent translocation of these adhesive complexes by...

...demonstrate that TgROM4 participates in processing of surface adhesins including MIC2, AMA1, and MIC3. Suppression of TgROM4 led to decreased release of the adhesin MIC2 into the supernatant and concomitantly increased the surface expression of this and a subset of other adhesins. Suppression of TgROM4 resulted in disruption of normal gliding, with the majority of parasites twirling...

...colleagues published their study in Plos Pathogens (Rhomboid 4 (ROM4) Affects the Processing of Surface Adhesins and Facilitates Host Cell Invasion by *Toxoplasma gondii*. Plos Pathogens, 2010;6(4):858). Additional information can be obtained by contacting J.S. Buguliskis, Washington University, School Medical, Dept. of Molecular Microbiology, St. Louis, MO 63110, USA. The publisher of the...

24/3, K/12 (Item 2 from file: 135)
 DIALCOG(R) File 135: NewsRx Weekly Reports
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0001052761 (USE FORMAT 7 OR 9 FOR FULLTEXT)
 Researchers from Washington University, Medical Department describe findings in life sciences
 Life Science Weekly, June 30, 2009, p. 1763

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English
 RECORD TYPE: FULLTEXT
 WORD COUNT: 326

...TEXT: MIC2," scientists writing in the journal
 ...Based on *in vitro* studies and homology modeling, we generated a series of mutations in *Toxoplasma gondii* aldolase (TgALDI) that

10585721a.pdf
delineated MC2 tail domain (MC2t) binding function from its enzyme activity. We tested these mutants by complementing a conditional knockout of TgALD1. Mutations that affected glycolysis also reduced motility. Mutants only affecting binding to MC2t...

...but is also essential for efficient host cell invasion, based on its ability to bridge adhesin-cytoskeleton interactions in the parasite." Starnes and colleagues published their study in Cell Host & Microbe (Adolase is Essential for Energy Production and Bridging Adhesin-Actin Cytoskeletal Interactions during Parasite Invasion of Host Cells. Cell Host & Microbe, 2009;5(4...)

24/3/K/13 (Item 1 from file: 185)
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05597234 BIOSIS No. 14208046844

Preparing for an invasion: charting the pathway of adhesion proteins to Toxoplasma micronemes.

AUTHORS: Huynh, My-Hang; Harper, Jill M.; Carruthers, Vern B. (a)
AUTHORS ADDRESS: (a) Johns Hopkins Bloomberg School of Public Health, W Harry Feinstone Department of Molecular Microbiology and Immunology, 615 North Wolfe Street, Baltimore, MD 21205; USA vcarruth@hsph.edu
SOURCE: Parasitology Research 98(5), April 2006: 389-395. [Print]
DOCUMENT TYPE: Article
ISSN: 0932-0113
LANGUAGES: English SUMMARY LANGUAGES: English
RECORD TYPE: Abstract

Preparing for an invasion: charting the pathway of adhesion proteins to Toxoplasma micronemes.

ABSTRACT: Toxoplasma gondii is an apicomplexan parasite capable of infecting a broad host range including humans. The tachyzoite...

...adhesive proteins from apical secretory organelles called micronemes. A protein complex consisting of the transmembrane adhesin MC2 and a tightly associated partner, M2AP, is abundantly released from the micronemes. Similar to many proteins in a regulated secretory pathway, T. gondii proteins destined for micronemes and rhoptries (another secretory organelle associated with invasion) undergo proteolytic maturation...

...propeptide that is removed in a post-Golgi compartment. By expressing an M2AP propeptide deletion mutant in the M2AP knockout background, we show that the propeptide is required for the MC2-M2AP complex to exit from the early endosome. Although a cleavage-resistant M2AP mutant was able to efficiently reach the micronemes, it was unable to rapidly mobilize from the...

...invasion and were partially attenuated in virulence to a degree that is indistinguishable from M2AP knockout parasites. Conditional expression of MC2 showed that it is also required for correct M2AP sorting...

...basis for future studies aimed at defining the branch points of protein sorting in T. gondii and at a deeper understanding of the precise roles of M2AP propeptide and MC2 targeting...

DESCRIPTORS:

...Toxoplasma gondii, ...

...control mechanisms
Toxoplasma gondii--Proteins

BROADER TERMS:

SYSTEMATIC:

Toxoplasma gondii--(Coccidia)--Parasite
Mus musculus--(Muridae)--Host

24/3, K/14 (Item 2 from file: 185)
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05246167 BIOSIS No. 14105027798

Calcium-mediated protein secretion potentiates motility in Toxoplasma gondii.

AUTHORS: Wetzell, Dawn M.; Chen, Lea Ann; Ruiz, Felix A.; Moreno, Silvia N.J.; Sibley, L. David (a)

AUTHORS ADDRESS: (a) Department of Molecular Microbiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110; USA sibley@circumstl.edu

SOURCE: Journal of Cell Science 117(24), November 15 2004: 5739-5748.

[Print]

DOCUMENT TYPE: Article

ISSN: 0021-9533

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Abstract

Calcium-mediated protein secretion potentiates motility in Toxoplasma gondii.

ABSTRACT: Apicomplexans such as Toxoplasma gondii actively invade host cells using a unique parasite-dependent mechanism termed gliding motility. Calcium-mediated...
...stimulate intracellular calcium fluxes and found that this drug led to enhanced motility by T. gondii. Treatment with calmidazolium increased the duration of gliding and resulted in trails that were twice as long as those formed by control parasites. Calmidazolium also increased microneme secretion by T. gondii, and studies with a deletion mutant of the accessory protein m2AP specifically implicated that adhesin MIC2 was important for gliding. The effects of calmidazolium on gliding and secretion were due...

...oscillations in intracellular calcium levels may regulate microneme secretion and control gliding motility in T. gondii.

DESCRIPTORS:

Toxoplasma gondii--Inorganic substances...

BROADER TERMS:

SYSTEMATIC:

Toxoplasma gondii--(Coccidia)

24/3, K/15 (Item 3 from file: 185)
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04953227 BIOSIS No. 14008043916

A role for coccidian cGMP-dependent protein kinase in motility and invasion.

AUTHORS: Wiersma, Helen L.; Galuska, Stefan E.; Tomley, Fiona M.; Sibley, L. David; Liberator, Paul A.; Donald, Robert G.K. (a)

AUTHORS ADDRESS: (a) Merck Research Laboratories, R80Y-260, P.O. Box 2000, Rahway, NJ, 07065-0900; USA robert.donald@merck.com

SOURCE: International Journal for Parasitology 34(3), 9 March 2004:

369-380. [Print]

DOCUMENT TYPE: Article; Meeting paper

ISSN: 0020-7519

LANGUAGES: English SUMMARY LANGUAGES: English

RECORD TYPE: Abstract

...ABSTRACT: pyrrol-3-yl] pyridine (compound 1), which effectively controls the proliferation of *Eimeria tenella* and *Toxoplasma gondii* parasites in animal models. The efficacy of compound 1 in parasite-specific metabolic assays of...

...timing of compound addition. Simultaneous addition of compound with extracellular *E. tenella* sporozoites or *T. gondii* tachyzoites inhibited [³H]-uracil uptake in a dose-dependent manner, while minimal efficacy was observed...

...cell invasion. Immunofluorescence assays confirmed that compound 1 blocks the attachment of *Eimeria* sporozoites or *Toxoplasma* tachyzoites to host cells and inhibits parasite invasion and gliding motility. Compound 1 also inhibits the secretion of micronemal adhesins (*E. tenella* MC1, MC2 and *T. gondii* MC2), an activity closely linked to invasion and motility in apicomplexan parasites. The inhibition of *T. gondii* MC2 adhesin secretion by compound 1 was not reversed by treatment with calcium ionophores or by ethanol...

...calcium dependent events commonly associated with the discharge of the microneme organelle in tachyzoites. Transgenic *Toxoplasma* strains expressing cGMP-dependent protein kinase mutant alleles that are refractory to compound 1 (including cGMP-dependent protein kinase knock-out lines)...

...potential role of cGMP-dependent protein kinase in invasion and motility. In these strains, parasite adhesin secretion, gliding motility, host cell attachment and invasion displayed a reduced sensitivity to compound 1...

DESCRIPTORS:

... *Toxoplasma gondii* -- Enzymes

BROADER TERMS:

SYSTEMATICS:

Eimeria tenella (Coccidia)
Toxoplasma gondii (Coccidia)

24/3, K/16 (Item 1 from file: 266)

DIALOG R File 266: FEDRI P

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IDENTIFYING NO.: 1ZI AAI 001017-03 AGENCY CODE: CRI SP

Toxoplasma Surface Antigens and Immunity

PRINCIPAL INVESTIGATOR: GRIEG, MICHAEL

SPONSORING ORG.: NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES
FY: 2009

Toxoplasma Surface Antigens and Immunity

SUMMARY: The protozoan parasite *Toxoplasma gondii* infects all nucleated cells and establishes life-long chronic infections in virtually any warm-blooded...

... The SRS proteins are regulated in a development-specific manner, and we showed by gene-knockout studies that four of these antigens expressed

by the tachyzoite stage are critical virulence factors: SAG1, SAG2, SRS2 and SAG3. SAG3 is a pivotal adhesin required for establishing infection, whereas SAG1, SAG2 and SRS2 are primarily immunomodulating factors that elicit...

... in all infected hosts. Our work with SRS2 identified that the majority of mouse virulent *Toxoplasma* strains poorly express SRS2, whereas all avirulent strains highly express SRS2. We tested whether the...

24/3, K/17 (Item 1 from file: 149)
 DI ALCOG R/ File 149: TGG Health & Wellness DB (SM)
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02269362 SUPPLIER NUMBER: 95206521 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Role of *Toxoplasma gondii* myosin A in powering parasite gliding and host cell invasion. (Reports).

Meissner, Markus; Schluter, Dirk; Soldati, Dominique

Science, 298, 5594, 837(4)

Oct 25,

2002

PUBLICATION FORMAT: Magazine/Journal; Refereed ISSN: 0036-8075

LANGUAGE: English RECORD TYPE: Fulltext; Abstract TARGET AUDIENCE:

Academic

WORD COUNT: 2223 LINE COUNT: 00205

Role of *Toxoplasma gondii* myosin A in powering parasite gliding and host cell invasion. (Reports).

...AUTHOR ABSTRACT: motion powered by their actomyosin system to disperse throughout tissues and to penetrate host cells. *Toxoplasma gondii* myosin A has been implicated in this process, but direct proof has been lacking. We designed a genetic screen to generate a tetracycline-inducible transactivator system in *T. gondii*. The *MyoA* gene was disrupted in the presence of a second regulatable copy of *MyoA*...

TEXT:

...prerequisite for survival and replication, and this process is dependent on the ability of *T. gondii* to glide (1). Gliding motility requires an intact actin cytoskeleton (2) and is likely to...

...the *MyoA* gene have failed. Thus, we tried to establish a system for conditional gene knockout to study this gene in vivo.

... (7) has not been used in parasites. The TetR can control gene expression in *T. gondii* (8) but the tTA system is totally inactive. The repression system is suitable for expression of toxic genes and of dominant-negative mutants...

...s) (8) showed no significant (beta)-galactosidase activity.

(FIGURE 1 OMITTED)

To generate a conditional knockout of *MyoA*, a second copy of the gene controlled by the tet-inducible promoter (*MyoAi*...

...depletion of *MyoAi* nor Atc treatment affected the rate of intracellular growth (Fig. 3C).

T. gondii uses similar molecular mechanisms for egress and invasion (11-13). After lysis of the host...

...no significant movement (9) (Movies S6 to S8).

The apical organelles, called micronemes, release transmembrane adhesion complexes, which are necessary for parasite gliding and host cell invasion (14-15). An impairment...

...parasites and supplemented the drinking water for some groups with Atc.

The strain of *T. gondii* used in this study is RH, a type I strain, which typically kills mice with...

...this time ATc was withdrawn. At day 17 after infection, these animals had developed *T. gondii* T and B cell-specific responses, as determined by an interferon-(gamma) specific ELISPOT (Fig...

...FIGURE 4 OMITTED)

The transactivator described here was instrumental in the generation of a conditional knockout for a virulence gene in an apicomplexan. This system establishes that the small class XIV...

...for the modulation of parasite gene expression in animal studies. TATI-1 represents a *T. gondii*-specific transactivator, and it remains to be seen if this factor functions in other apicomplexans...

DESCRIPTORS: Toxoplasma--